

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001227**Date Inspected:** 09-Jul-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1200**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2359**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** iscellaneous Metal, Counterweights, OBG 3A**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Team China photo's in assembly area with banner and personnel. Review ZPMC and proofread Backlog of ZPMC inspection reports and sign as needed.

Counterweights

ZPMC requested final inspection of counterweights coded: CW 32, CW36, CW 42, CW46, CW44 External surfaces and internal and external surfaces on CW22, CW24, CW26, CW28, prior to transport from approved paint shop. Repairs required on all listed above, none accepted by ABF & Caltrans as discontinuities in paint film of Interfine 979 as well as internal surfaces coated with Intercure 200 HS repairs required.

Suspender Brackets

SB12E, SB28E, SB12W, SB18W, SB28W, repairs to mud crack areas by abrasive blasting to base metal and rejected by ZPMC QC representative at time of scheduled inspection. ZPMC then sent a Notice of Inspection three hours later requesting inspection for application of finish coat on these same units, then cancelled.

OBG 2AW/BW and Cross Beam

Mud crack repairs were performed by abrasive blasting to base metal and an SSPC SP-10 condition and Interzinc 22 applied to amend also areas of low Dry Film Thickness (DFT) were also amended concurrent with the same procedure for mud crack repairs. Profile amplitude was 70-76um.

OBG 3AW/3AE/3AE/2BE 3AW/2BW & Cross Beam

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Repairs made to damaged coatings by abrasive blasting to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied to affected areas.

Counterweights

Internal surfaces were repaired with Intercure 200 HS and external surfaces were repaired with Interfine 979 to amend deficiencies on units CW32, CW26, CW44.

North Tower Base Plate

Base metal surfaces were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting.

Miscellaneous Metal

Base metal surfaces of approximately 58 pieces of splice plates and cable tray assemblies were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley. International Protective Coatings technical service representative Peng ZiLi was available for inspection and consultation.

Summary of Conversations:

Caltrans QA Lumley informed ABF QA Shi Zhao Yuan and ZPMC QC Wang Wei coating outside approved paint workshops as stated in State Letter 05.03.01-004556 Dated July 6, 2009 would result in an incident report.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James
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Quality Assurance Inspector

Reviewed By:	Carreon,Albert
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QA Reviewer
